



C-SAWS (V7.2) Final Project Review

22 March 2001





Purpose

- **Provide user overview of process and product**



Agenda

- **PM IPT Overview**
- **Contracting IPT**
- **Configuration Management/Software IPT**
- **Quality Assurance IPT**
- **Summary**



Team Shared Vision

- **Develop our CSAWS branch with emphasis on helping those who follow**
- **Employ concepts from the course to improve the project process**
- **Enhance the site with our additions**



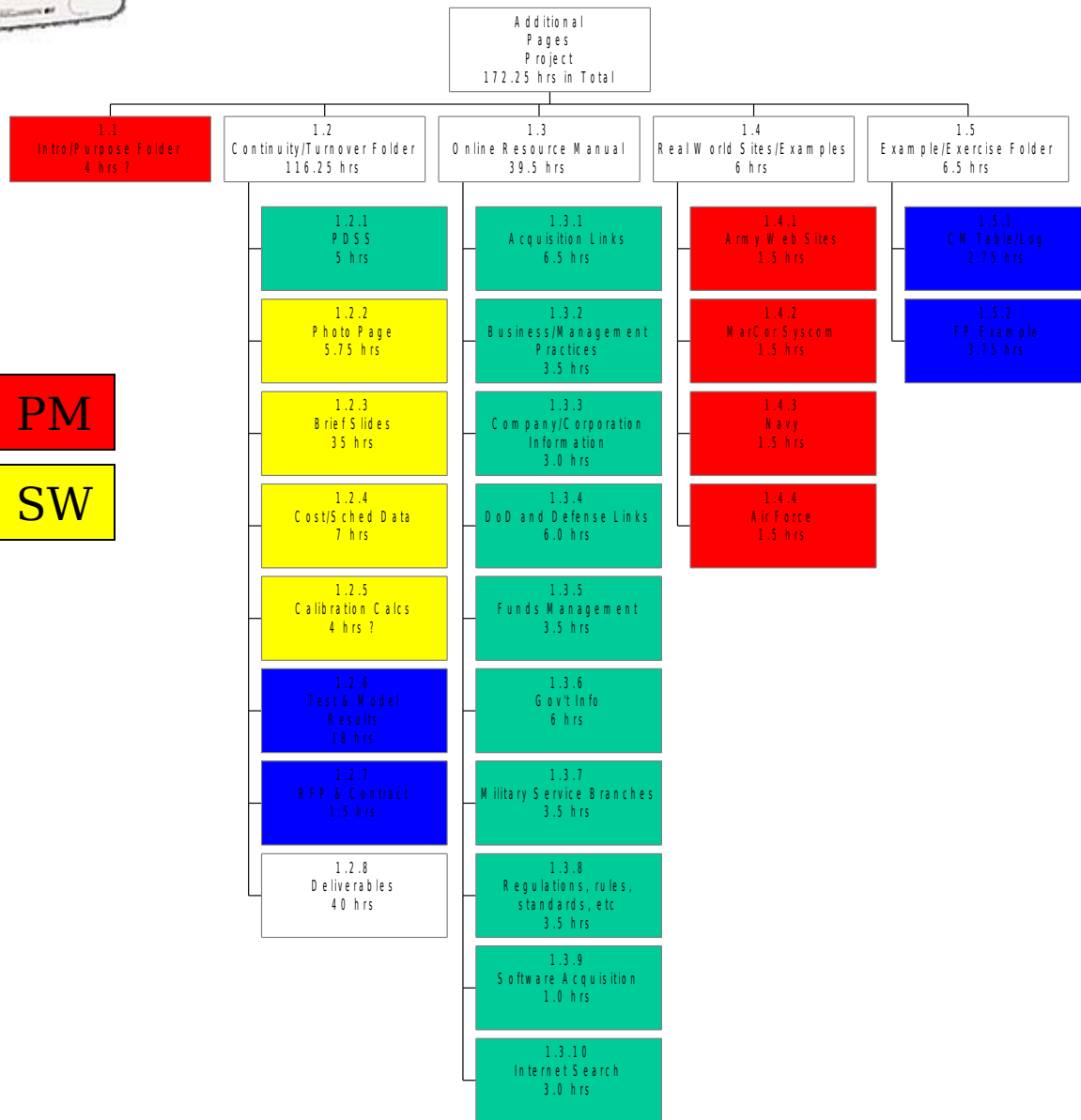
Risk Management

- **Alpha-Teaming**
 - **Cross functional IPTs**
- **WBS**
 - **Inch-pebble approach**
 - **Scaled work to meet hour restriction**
- **Information dissemination**
 - **Bi-weekly meetings**
 - **Email updates w/ user and teams**
- **Focused development on our branch**



Work Breakdown Structure for FOC

QA	PM
Kr	SW





Schedule

Scheduled
Completion

Mar 19

Additional
Pages
Project
132.25 hrs in Total

Mar 21

Feb 19

1.1
Intro/Purpose Folder
4 hrs

Feb 21

Actual_
Completion

Mar 19

1.2
Continuity/Turnover Folder
76.25 hrs

Mar 21

Mar 7

1.3
Online Resource Manual
39.5 hrs

Mar 7

Feb 26

1.4
Real World Sites/Examples
6 hrs

Mar 5

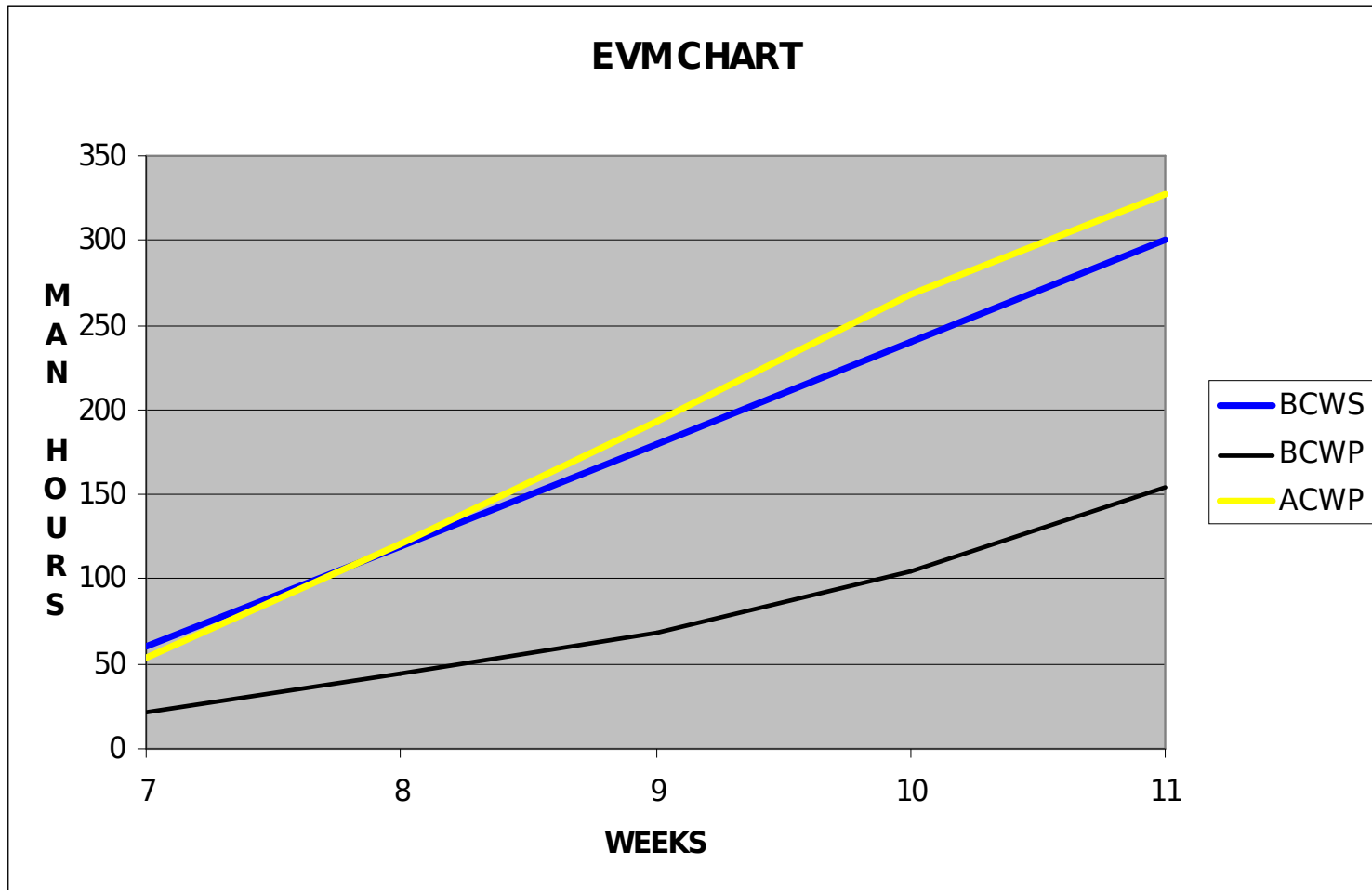
Mar 7

1.5
Example/Exercise Folder
6.5 hrs

Mar 19



Earned Value Management





Contracting IPT



Contracting IPT CDR

- Firm Fixed Price Contract
- SAMP Refinement
- Alpha Contracting Continues
- Risk –Cost, Schedule, Performance
- Lessons Learned
 - Risk v. Contract Type
 - WBS
 - Metrics



Contracting IPT Final Project Review

- Firm Fixed Price
 - EPA
 - Incentive Fee & Performance Based Payments (risk mitigation)
- Letter of Continuity
- Innovation
 - User Input
 - Alpha Contracting
 - Award Term & Output Contracting
- Lessons Learned
 - Metrics
 - IPT Roles
 - WBS
 - 815 Curric



Configuration Management / Software IPT



CoCoMo II Calibration

Actual

- Win 00 - 21.6 hrs/pg
- Win 99 - 37.7 hrs/pg
- Sum 99 - 16.9 hrs/pg
- Ours - 13.8 hrs/pg

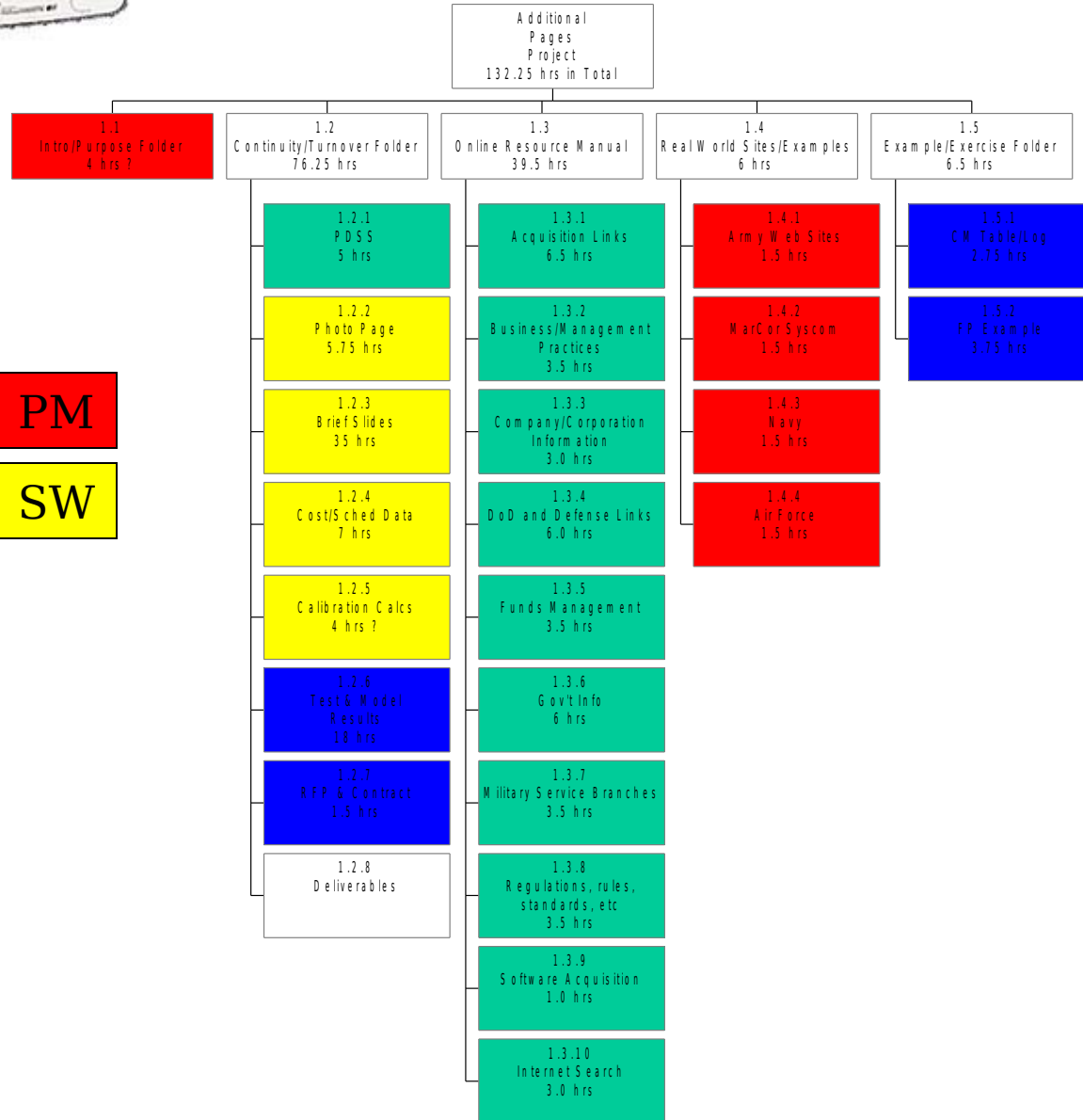
Estimate

- Win 00 - 51.4 hrs/pg
- Win 99 - 35.3 hrs/pg
- Sum 99 - 24.8 hrs/pg
- Ours - 21.5 hrs/pg



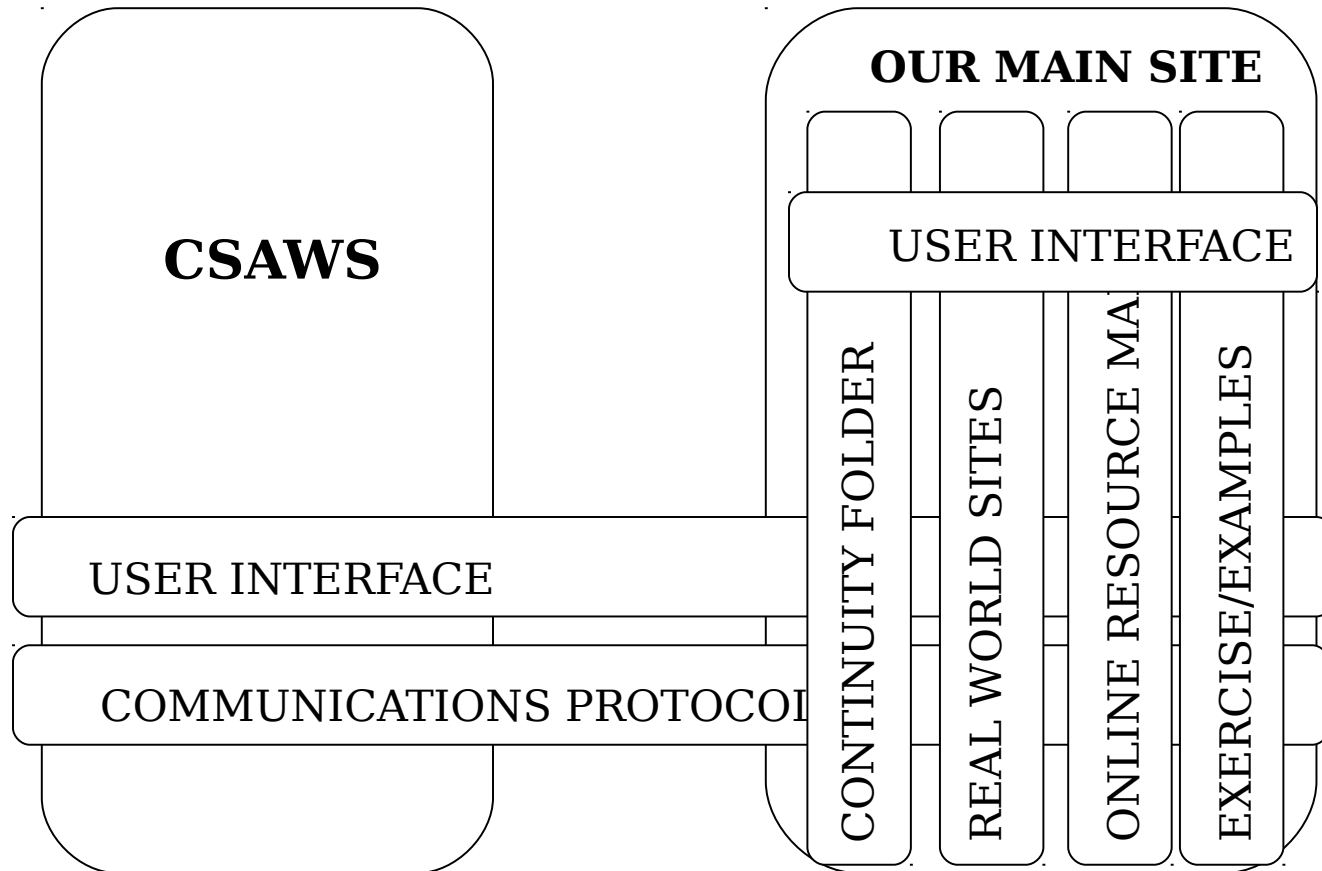
Work Breakdown Structure for FOC

QA	PM
Kr	SW





Architecture





Lessons Learned

- Reuse is paramount
- Start Early
- Continual Communications
- Test at Inch Pebble
- Establish Base Line



Quality Control IPT



QA / QC IPT FOC Actions

- **Tested all web pages per TEMP**
- **Notified CM personnel if corrections needed**
- **Updated QA / QC report/matrix**
- **All testing accounted for in test matrix**



QA / QC IPT

Test Parameters from TEMP

Technical Parameter

Threshold

Spelling & Grammar

95%

error free

Objective

100%

All links, images, etc.

95%

error free

100%

Download speed/page

20 sec

10 on / 15 off

Top level page -

Hierarchical

summary & links

Architectural



QA / QC IPT Risk

Management Risk Level

Countermeasure

Personnel Shortfalls max comm.	Low	1:3 Ratio,
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Tight Schedule Realistic estimates	High	
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Hardware Problems time in	Med	Add Flex est.
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Item #	Req. Description	LS Rating	Contractor CM Team Action Taken	Date
1.1	Intro/Purpose Folder		Reviewed. Approved For Test	1-Mar
1.2	Continuity/Turnover Folder			
	Required Acq Documents:			
	Innovation Plan		Reviewed. Approved For Test	6-Mar
	Acquisition Plan			
	SAMP		Reviewed. Approved For Test	
	Compliance Matrix		Reviewed. Sent Back for Correction	8-Mar
	Configuration Mgmt Plan		ReReviewed. Approved For Test	12-Mar
	Web Site Mgmt		Reviewed. Approved For Test	6-Mar
	CM Log			
	EVM Page		Reviewed. Sent Back for Correction	8-Mar
			ReReviewed. Approved For Test	12-Mar
	Risk Management Plan		Reviewed. Approved For Test	6-Mar
	TEMP		Reviewed. Approved For Test	1-Mar
	Change Log		Under Construction but looks good	
	PDSS		Reviewed. Approved for Test	12-Mar
	Photo Page		Reviewed. Approved For Test	1-Mar
	Briefing slides			
	Cost Schedule Data			
	Calibration Calculations			
	Test Model and Results		Working. Looks Good.	13-Mar
	RFP and Contract		Reviewed. Approved For Test	1-Mar
	Maintenance Module		Reviewed. Approved For Test	6-Mar
1.3	Online Resource Manuals			
	Acquisition Links		Part of Links Page. All OK	27-Feb
	Business/Management Practices		Part of Links Page. All OK	27-Feb
	Company/Corporation Information		Part of Links Page. All OK	27-Feb
	DoD and Defense Links		Part of Links Page. All OK	27-Feb
	Funds Management		Part of Links Page. All OK	27-Feb
	Gov't Info		Part of Links Page. All OK	27-Feb
	Military Service Branches		Part of Links Page. All OK	27-Feb
	Regulations, rules, standards, etc.		Part of Links Page. All OK	27-Feb
	Software Acquisition		Part of Links Page. All OK	27-Feb
	Internet Search		Part of Links Page. All OK	27-Feb
1.4	Real World Sites / examples			
	Amy Web Sites		Part of Links Page. All OK	27-Feb
	MARCORPS SYSCOM			
	Navy			
	Air Force			
1.5	Example / Exercise Folder			



QA / QC IPT

Lessons Learned

- Have a clear understanding of the desired final product
- Utilize Metrics established in the TEMP
- Effective communication is a must
- Time management is a must
- There's merit in enabling QA/QC to make easy fixes to content errors (spelling grammar)
- Put QA/QC in each IPT



Process Innovation

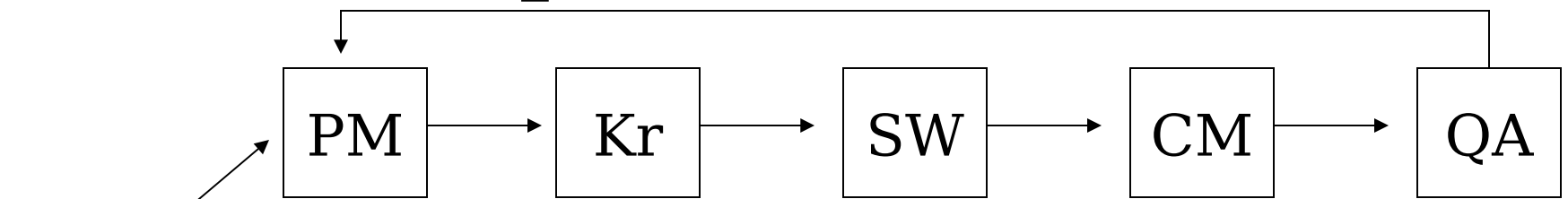


Process Innovation

- DevTeamOne Site Focus
- Use of IPTs
 - Empowering IPTs
 - Combining IPTs
 - SW/CM → close association of tasks
- Matrix Kr IPT Members
- SAMP
- Greater Use of Virtual Meetings thru E-mail



Innovation Implementation

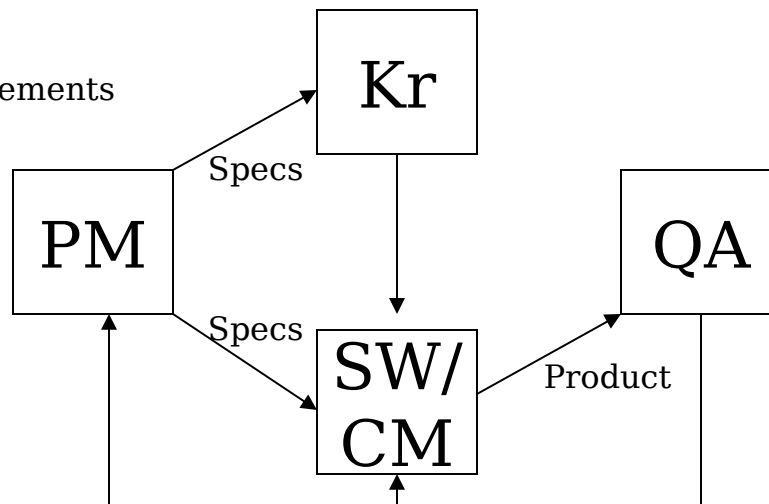


Requirements

- Sequential process
- Process friction

User

Requirements



CSAWS site

- Parallel process
- Less process friction



KOPeR Analysis

Measurements (e.g., size of 5) suggest the small **Process Baseline** process suffers from the following pathologies:

- Parallelism (1.0) - *sequential process*.
- Handoffs fraction (0.8) - *process friction*.
- Feedback fraction (0.2) - *feedback looks OK*.
- IT support fraction (1.0) - *IT support looks OK*.
- IT communication fraction (1.0) - *IT communication looks OK*.
- IT automation fraction (0.0) - *inadequate IT automation*.

Measurements (e.g., size of 4) suggest the small **Innovation Redesign** process suffers from the following pathologies:

- Parallelism (1.333) - *sequential process*.
- Handoffs fraction (0.25) - *process friction*.
- Feedback fraction (0.25) - *feedback looks OK*.
- IT support fraction (1.0) - *IT support looks OK*.
- IT communication fraction (1.0) - *IT communication looks OK*.
- IT automation fraction (0.0) - *inadequate IT automation*.



Lessons Learned



Lessons Learned

- Continuity is essential!
- Requirements **must** be clearly defined and understood!
- Create a WBS immediately.
- IPTs must redistribute and assign work. Make someone ultimately responsible for everything you do.
- Management supervision is essential for effective integration (the Management Oversight Panel used by the JSOW Program is an excellent tool!)



Lessons Learned

(continued)

- Metrics! Metrics! Metrics!
- A group of people thrown together does not an effective IPT make!
- Reuse, Reuse, Reuse!
- Overhead is not free.
- Get “in bed with the user.” Know him like the “back of your hand.”



Summary



FOC Requirements

- Recommend Three Requirements to be Considered for Cancellation Next Quarter
- Develop Online IOC Requirements-Compliance Matrix
- Develop Online PDSS Manual
- Three New PMO-Generated Requirements



FOC Requirements

(continued)

- Incorporate Group Photographs
- Present Actual Cost and Schedule Information
- Use Actual Cost and Schedule Information to Calibrate CoCoMoII/REVIC
- Test Online Training and Maintenance Module



Requirements Recommended for Cancellation

IOC Requirements- Content

- # 20 - Incorporation of at Least One Useful Java Applet
- # 11 - Links and Pointers to at Least Twenty Online Acquisition Resources in Addition to Those Listed in the Course Outline
- # 13 - Mechanism for Feedback from Viewers of C-SAWS



New PMO-Generated Requirements

As previously briefed:

- Updated Configuration Change request Log/Form
- Link to Army Specific Software Program Manager or Site
- Incorporation of a Continuity Folder



Additional Recommendation

Incorporate a formalized “time card”

- Electronic format
- “Costing” to specific work package
- Have an “overhead” category



Summary

- Refocused after CDR and identified FOC deliverables
- Established WBS and assigned to IPTs
- Carefully monitored “cost” to not break budget/renege negotiate deliverables with user
- Met requirements under budget